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(54) Procédé et dispositif pour le nettoyage des articles textiles.

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CENT TECHN TINTUR

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Dry cleaning synthetic textiles, esp polyester - using surfactant org soln
contg emulsified aqs detergent compn

A process for dry cleaning textile articles made of synthetic fibres, esp. polyester, comprises treating the articles with a soln. of surfactants in an org. solvent; the soln. also contg. in emulsified form, an aqs detergent compn., and injecting steam during the washing cycle. Apprs. for perf- forming the above process is also claimed.

ADVANTAGES

The process combines the advantages of dry- and wet cleaning, removes both greasy and non-greasy stains and dirt, is cheaper and involves shorter washing cycles than wet processes and does not reject the used, polluted water.

MATERIALS

The surfactants pref. comprise a mixt. of anionic and non-ionic agents in the wt. ratio 0.1-1, pref. 0.25-0.5. The aqs detergent compn. is conventional, eg contain alka- line perborates, Na phosphates, GMC, silicates, surfact- ants etc. and is used in an amt. equal to that of the surfact- ants. The solvent is perchloroethylene or 1,1,1-trichloro- ethane. Vol. ratio of solvent and total injected compn.

(solvent + surfactants + detergent + water) is 0.1-0.9, pref. 0.5. Concn. of active components (detergent + surfactants) relative to bath vol. (water + solvent) is 2.5-10 g, pref. 5-7.5 g/l.

PROCESS

The detergent is dissolved in water, a soln. of the sur- factants in the solvent is poured into the aqs. soln and the obtd. emulsion together with steam are simultaneously sprayed over the textile articles. During washing amt of water used is 10-100 wt. % based on dried articles.

APPARATUS

The apparatus comprises a rotatable drum (1), a container (2) for used solvent, connected to the drum and to a solvent puri- fier/evaporator device (4), a container (3) for clean solvent also connected to the drum and to the device (4), a device (5) for spraying (1/2) solvent and also for injecting the emulsion (3/4) and a steam injector (9) located in the centre of the drum and connected to a pressure valve (10). Dirt, waste etc. are removed at (6).

EXAMPLE

A soln. of 700 g Cemulsol NPTIO (RTM) and 20 g Sub- mel DOS 75 (RTM) in 300 c.c. perchloroethylene is poured

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into a soln. of 90 g Saconeige (RTM) in 675 g water and the emulsion obtd. is extended with perchloroethylene to 2 l. (12 pp.)

